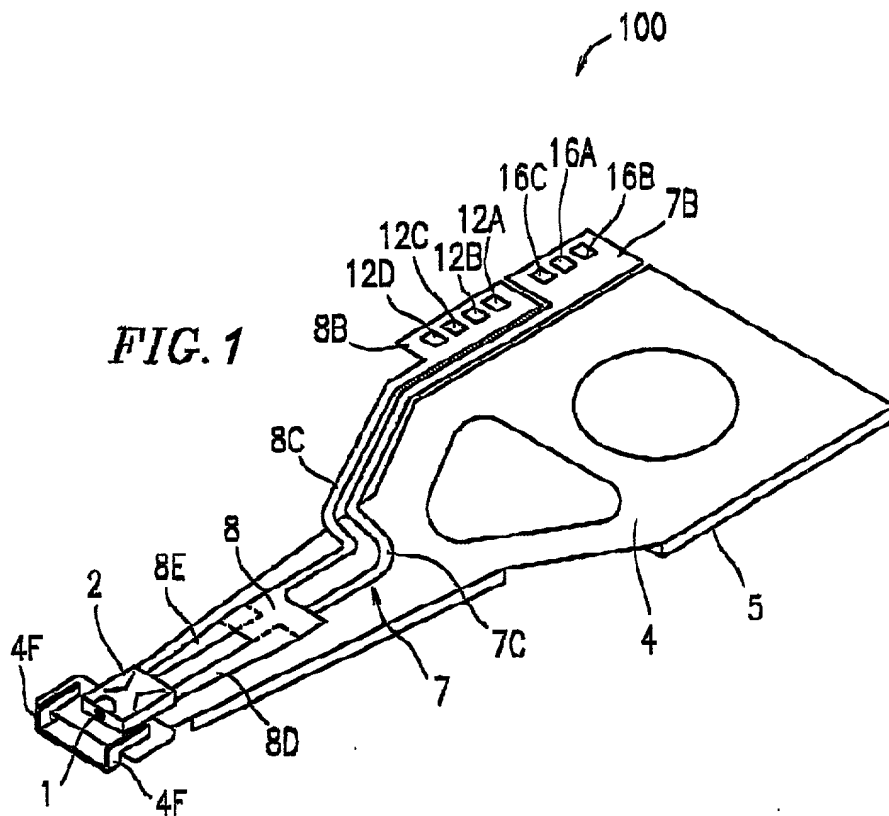


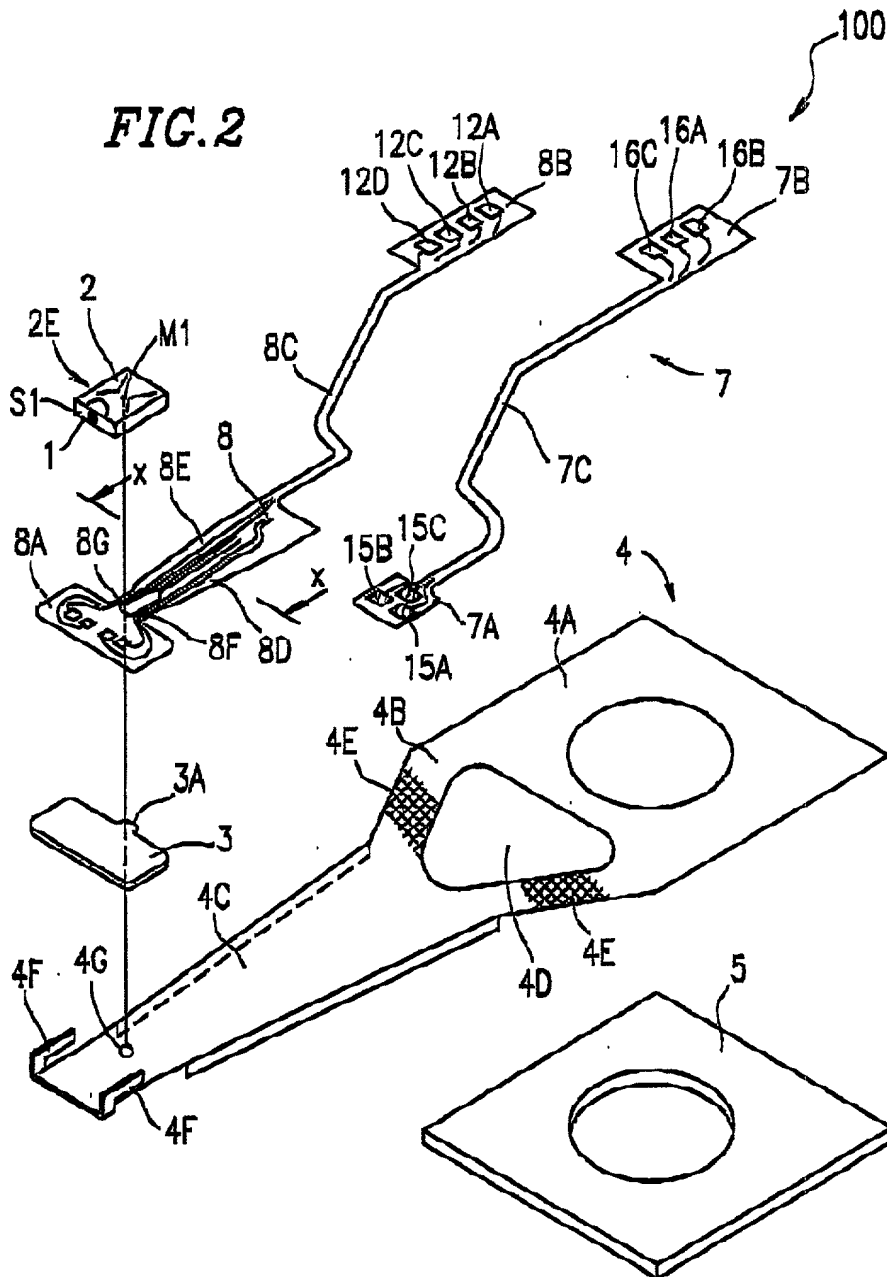
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FIG. 1

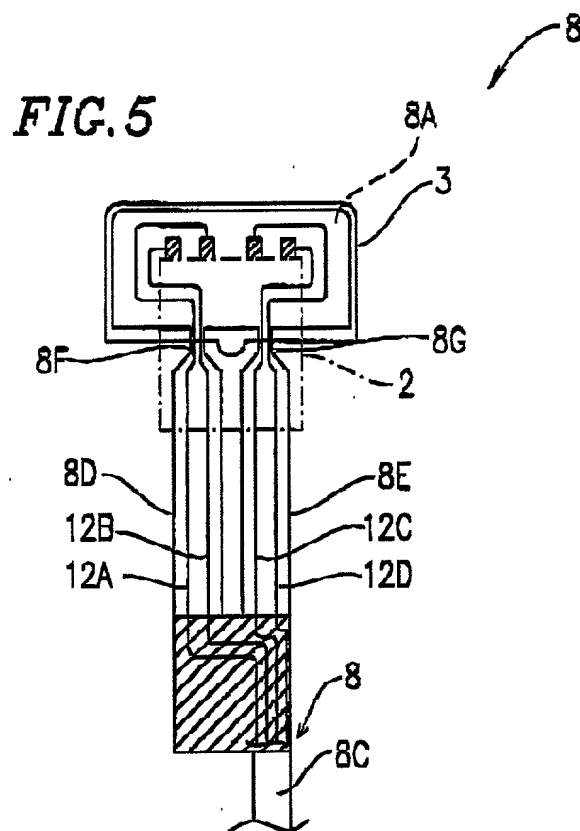


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FIG. 2

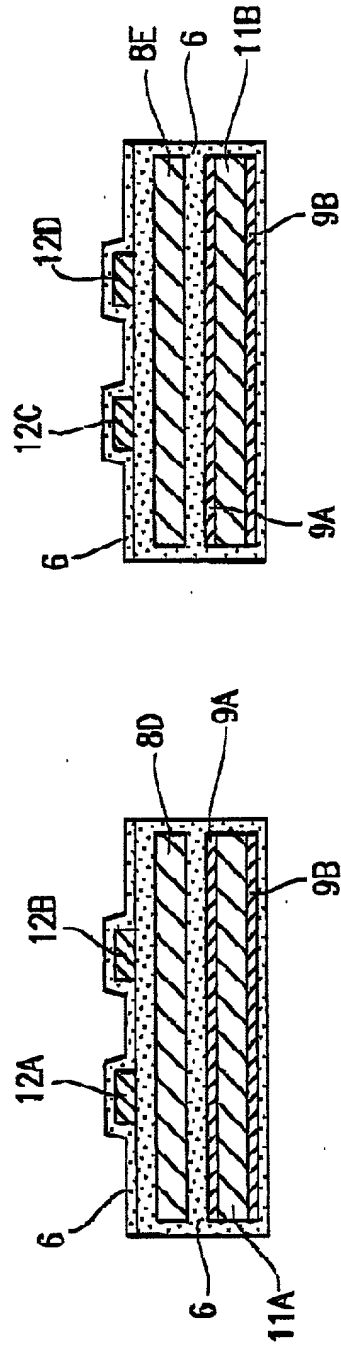


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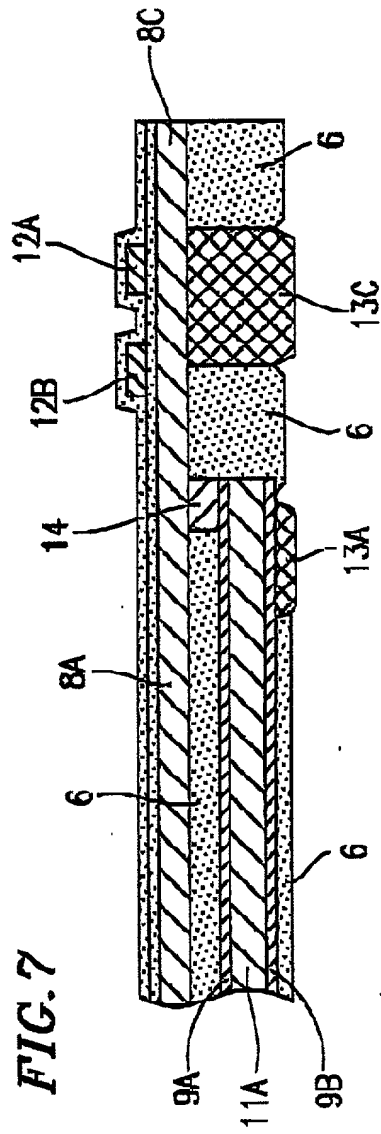


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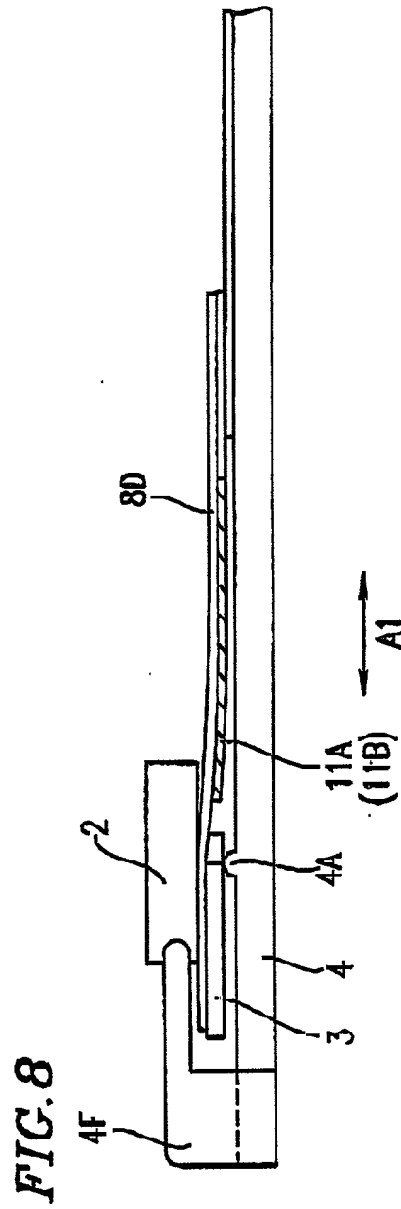
FIG. 6



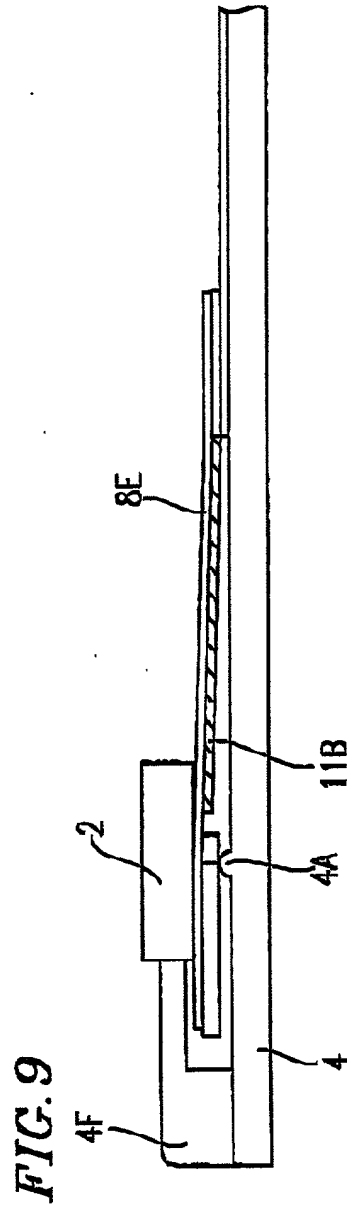
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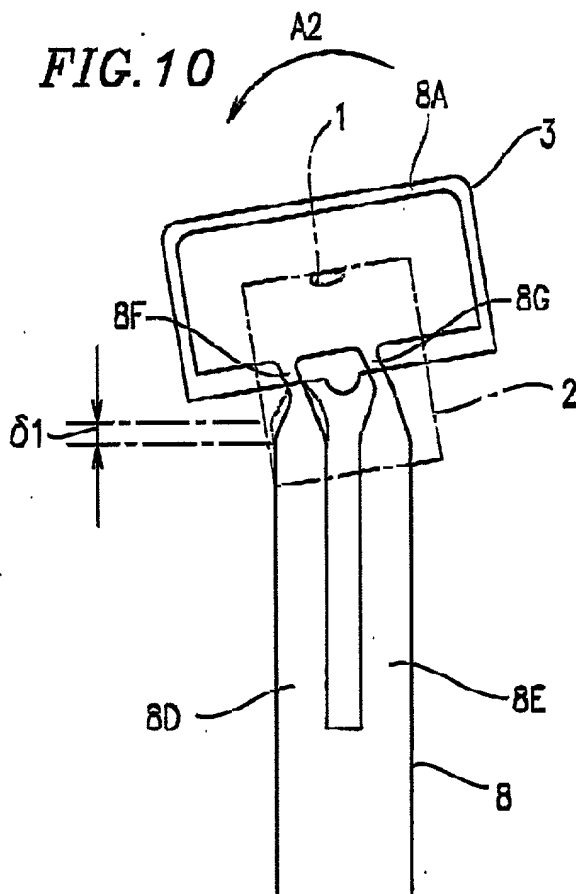
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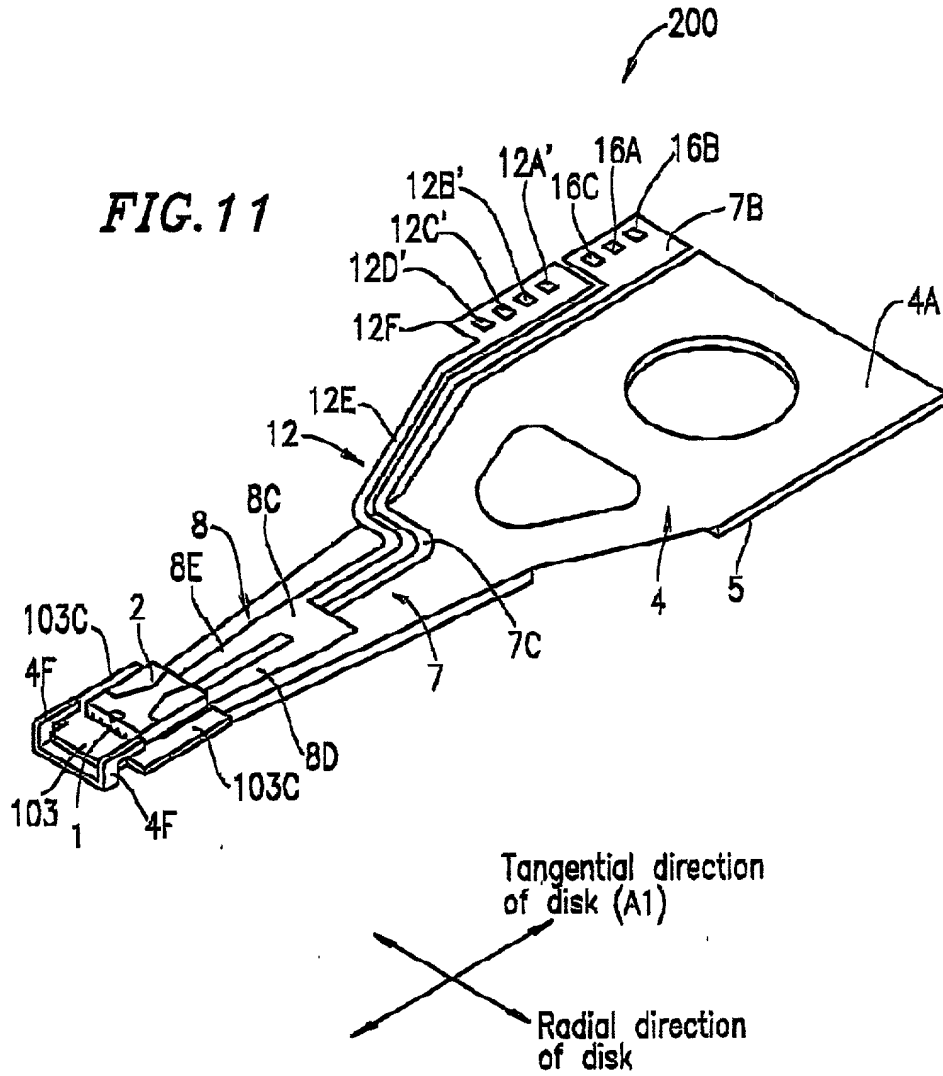
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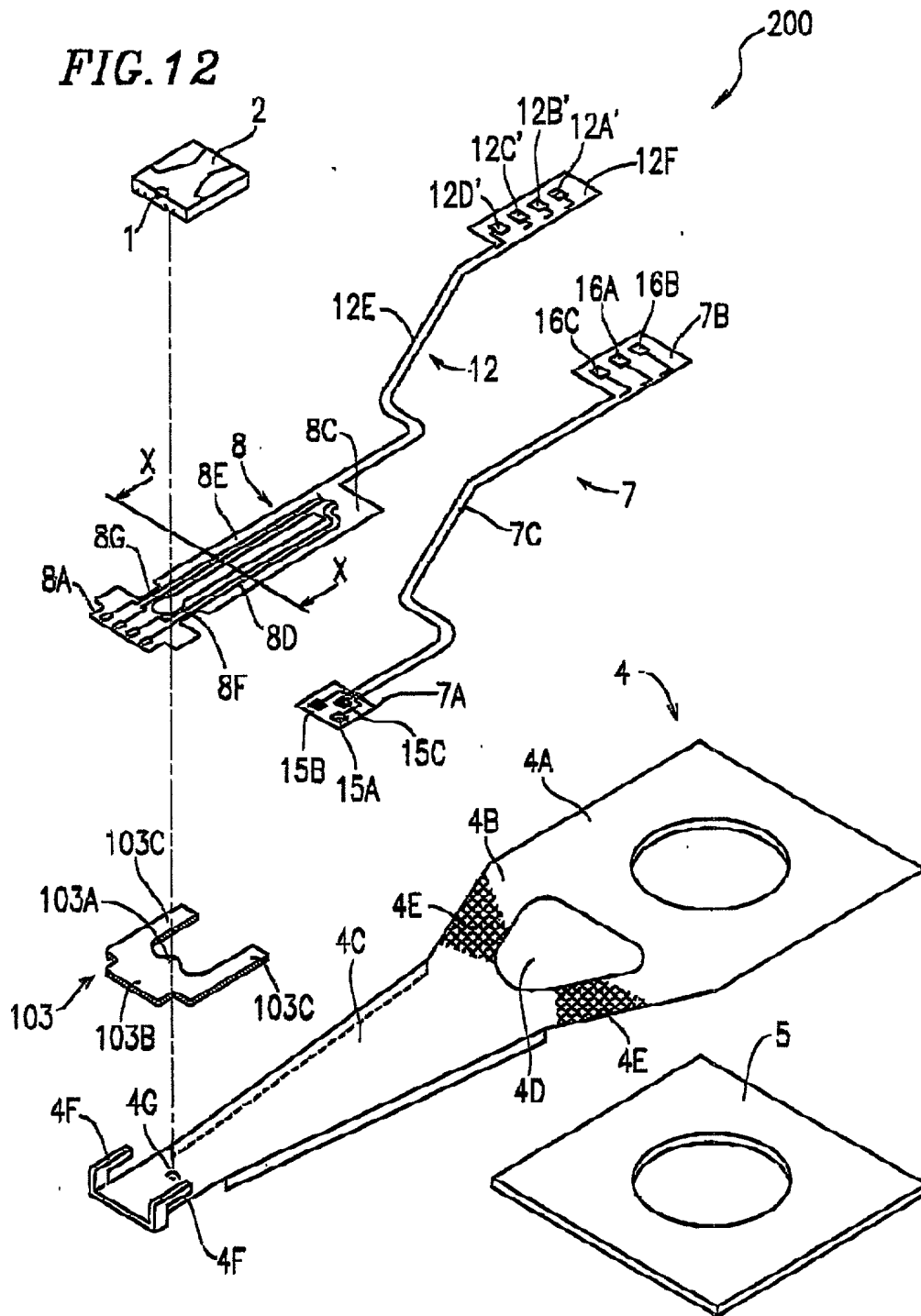
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FIG. 11

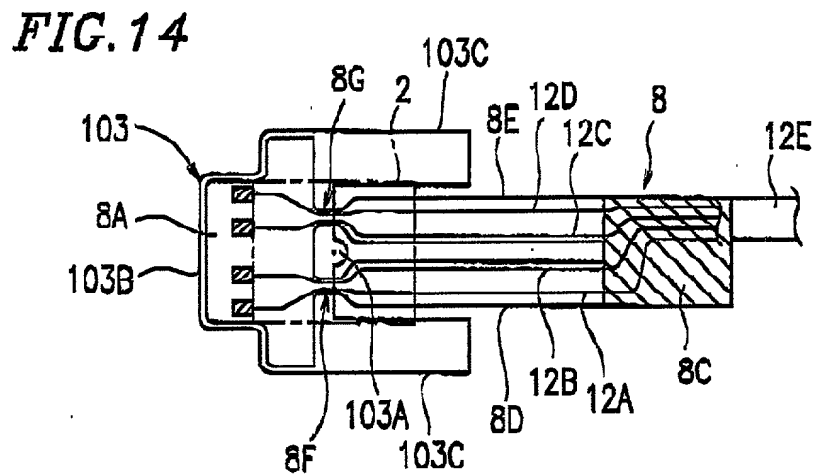
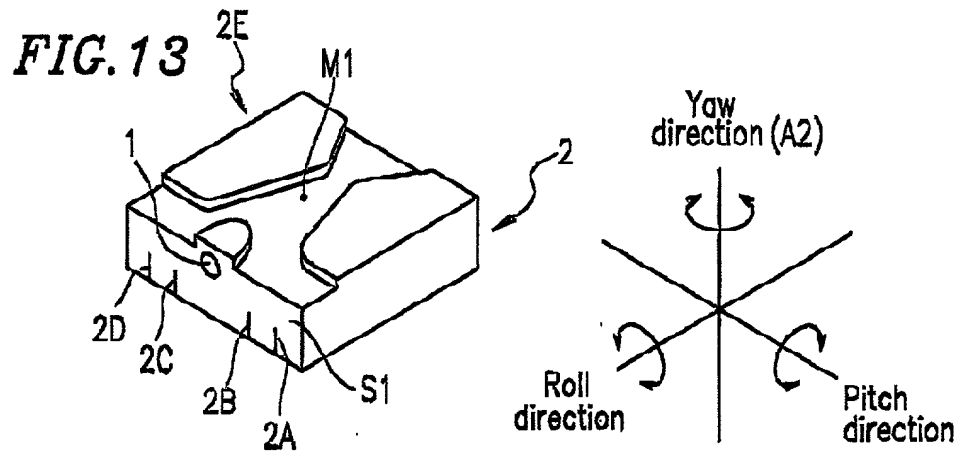


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FIG. 12



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FIG. 15

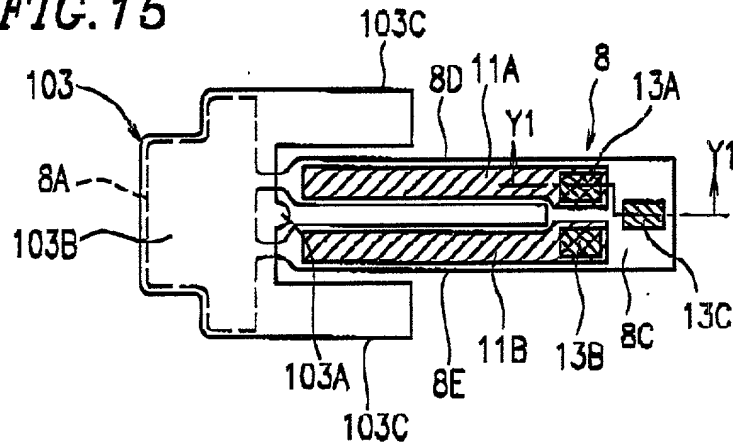
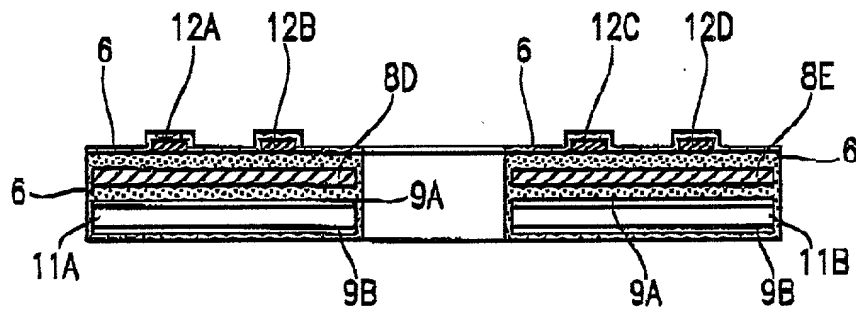


FIG. 16



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FIG. 17

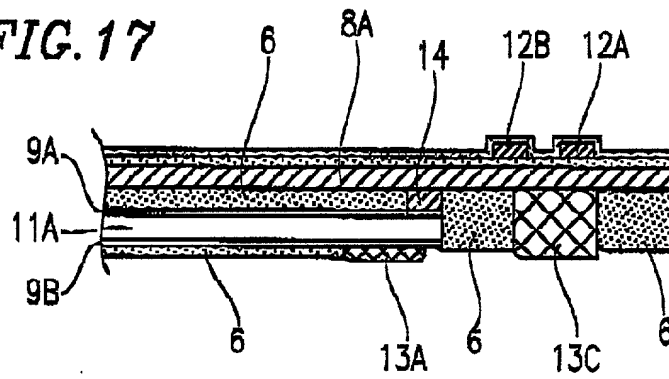


FIG. 18

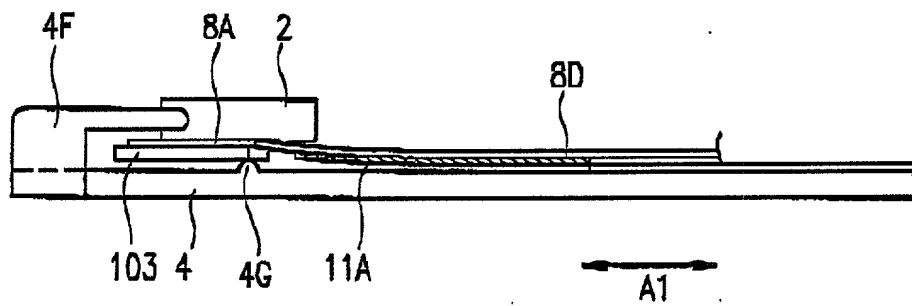
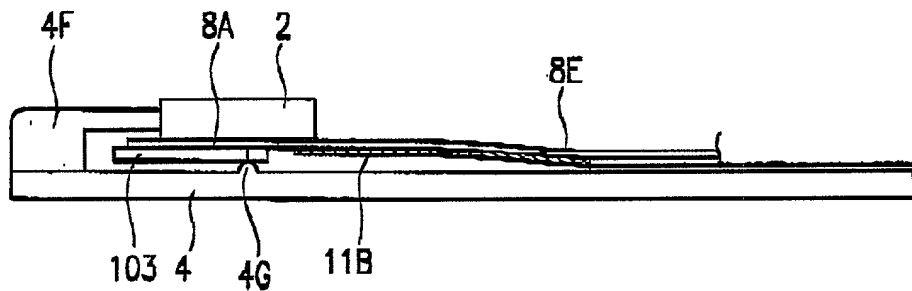


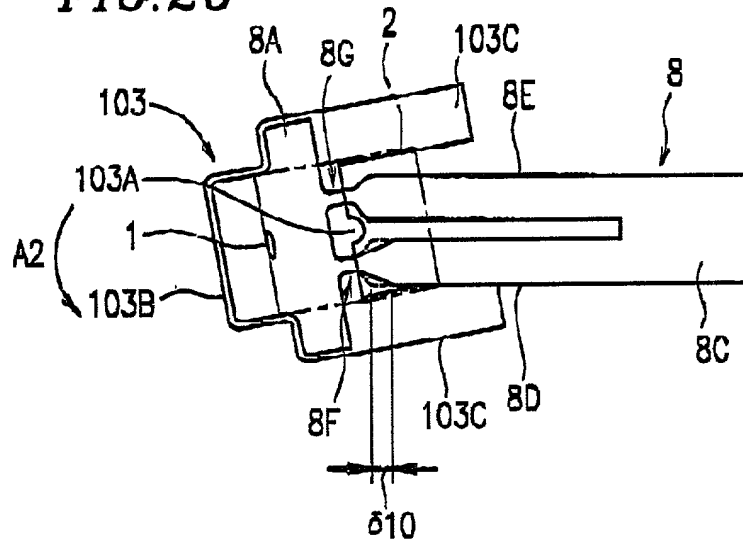
FIG. 19



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FIG. 20



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FIG.23A

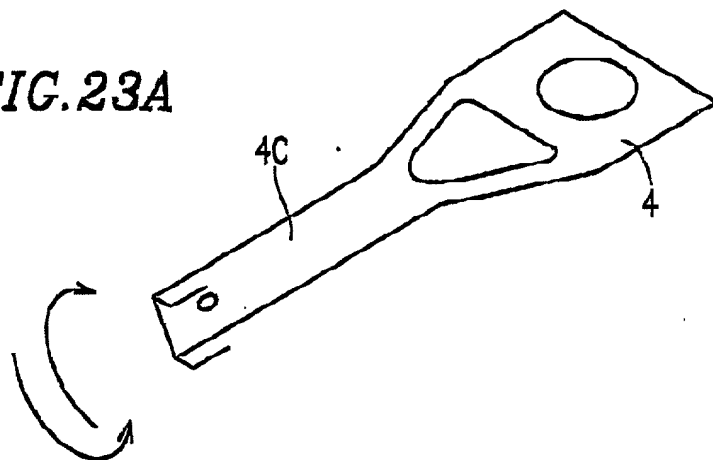


FIG.23B

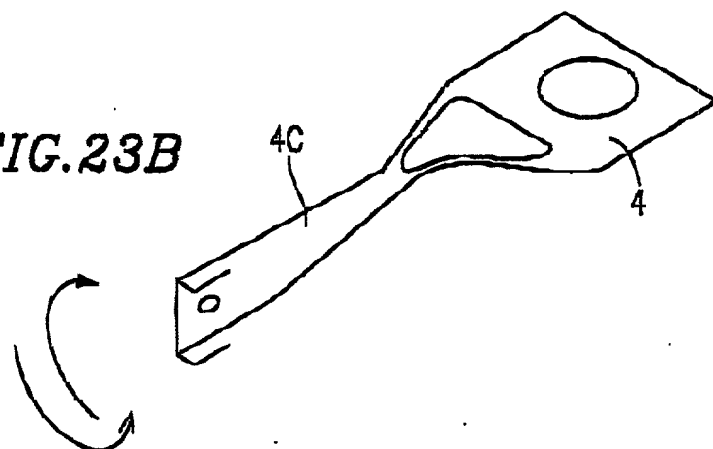
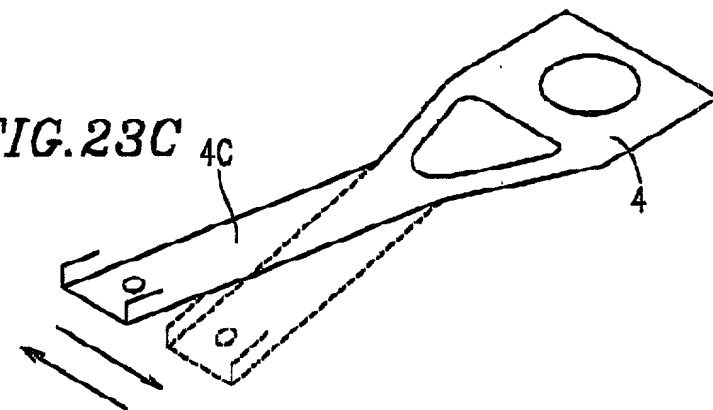
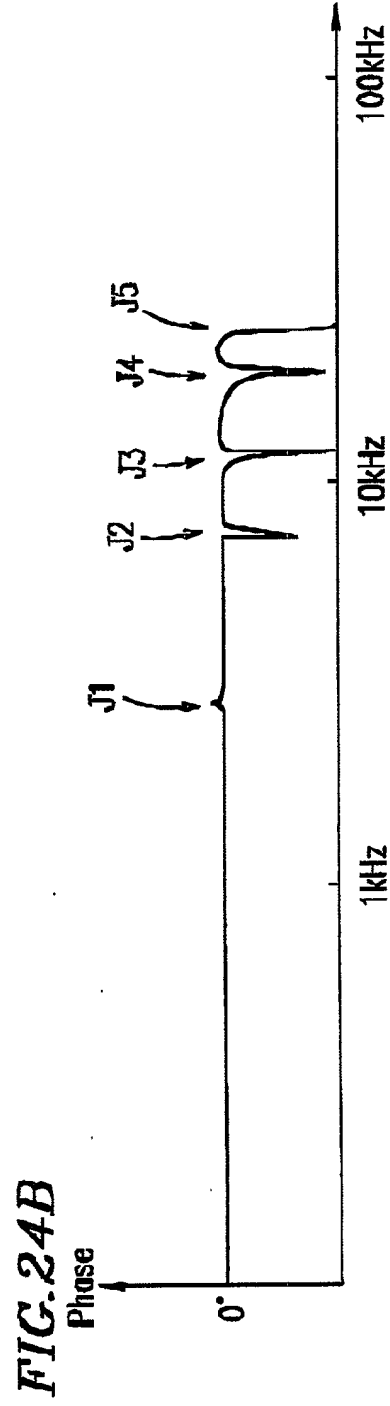
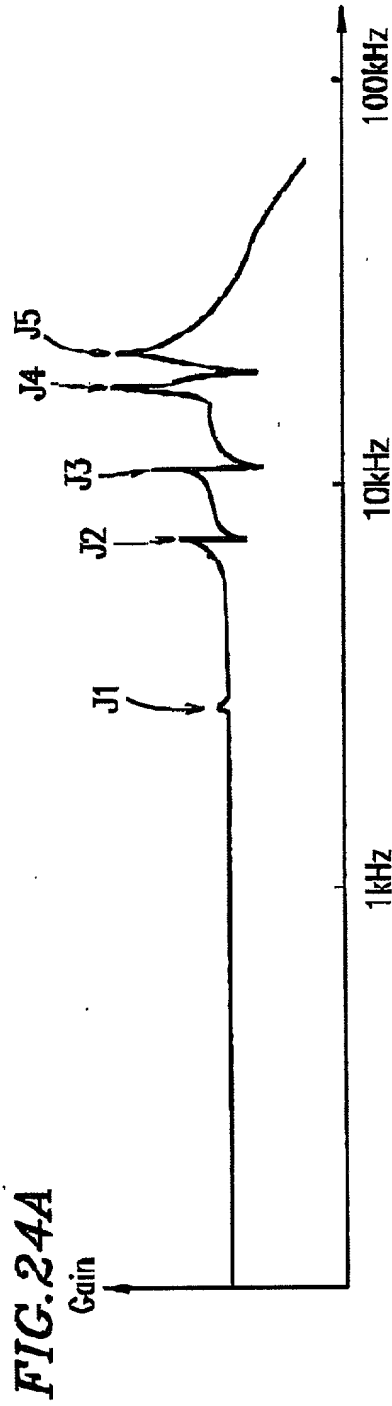


FIG.23C



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FIG.25A

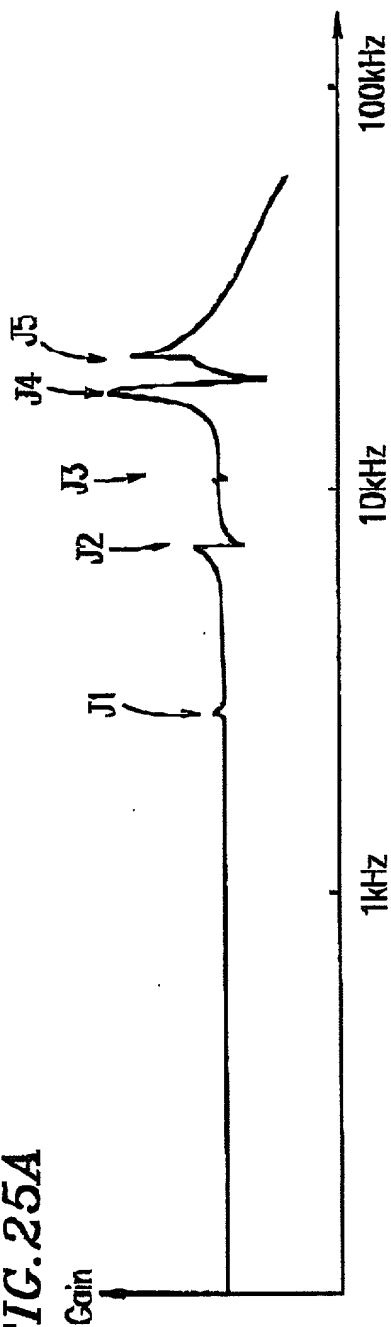
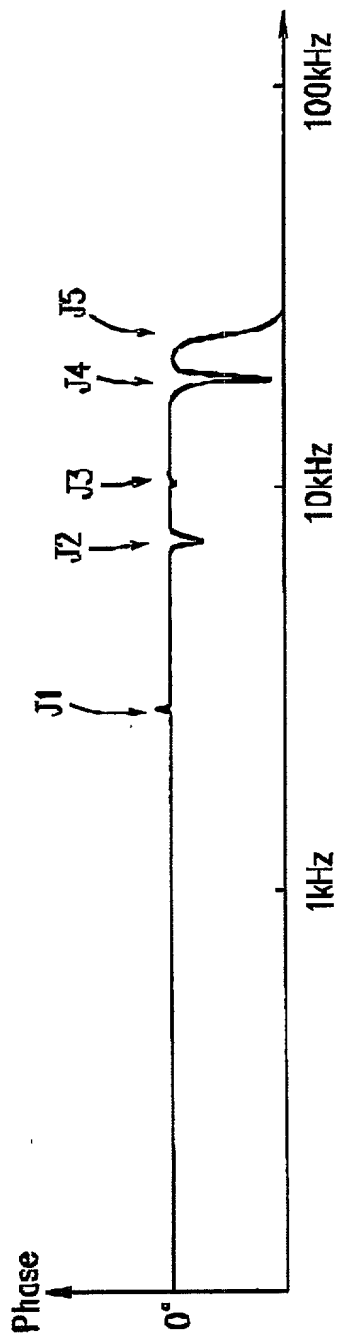


FIG.25B



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FIG.26A

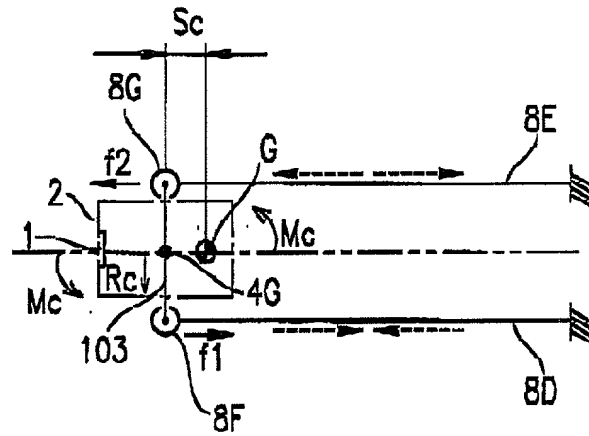
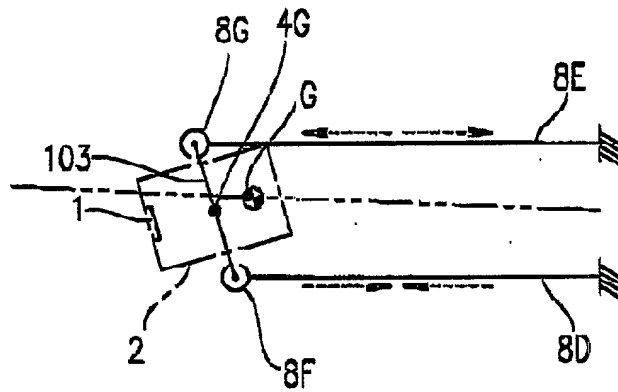


FIG.26B



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FIG. 27A

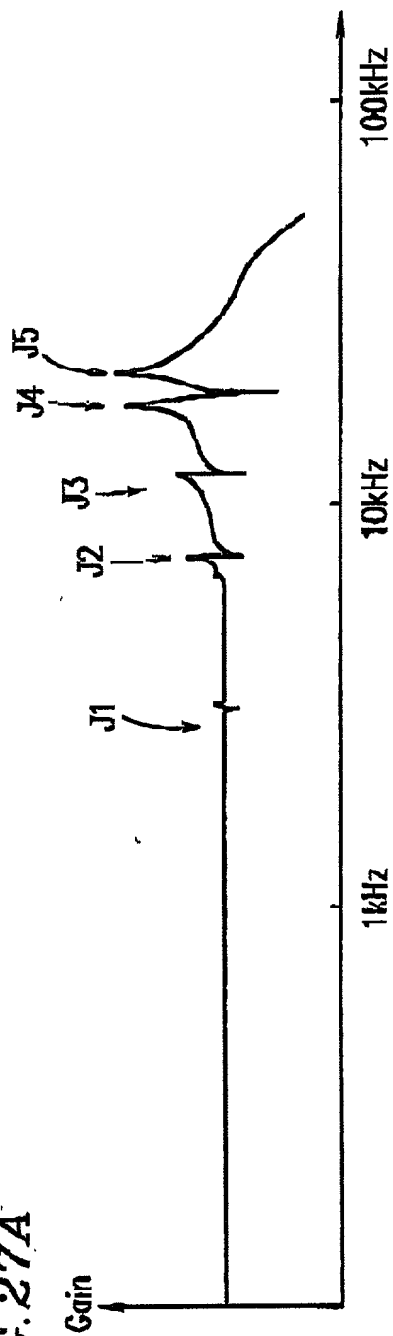
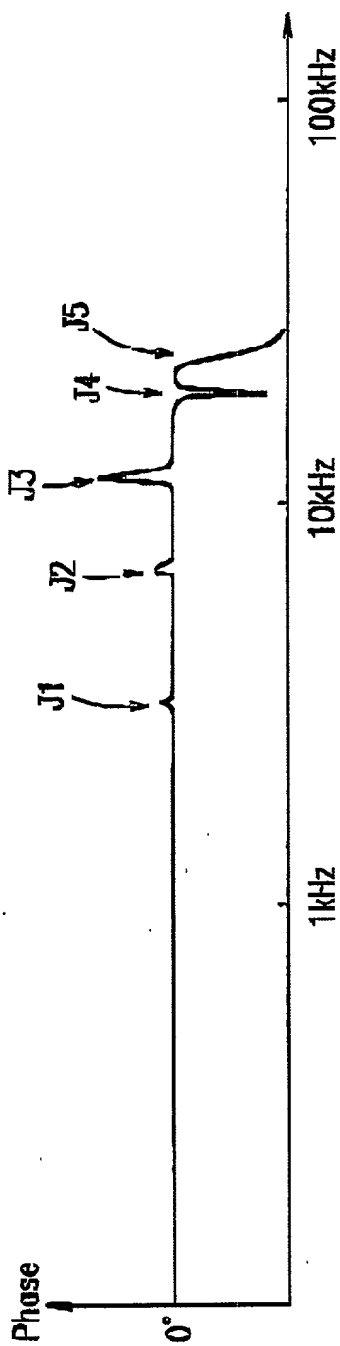
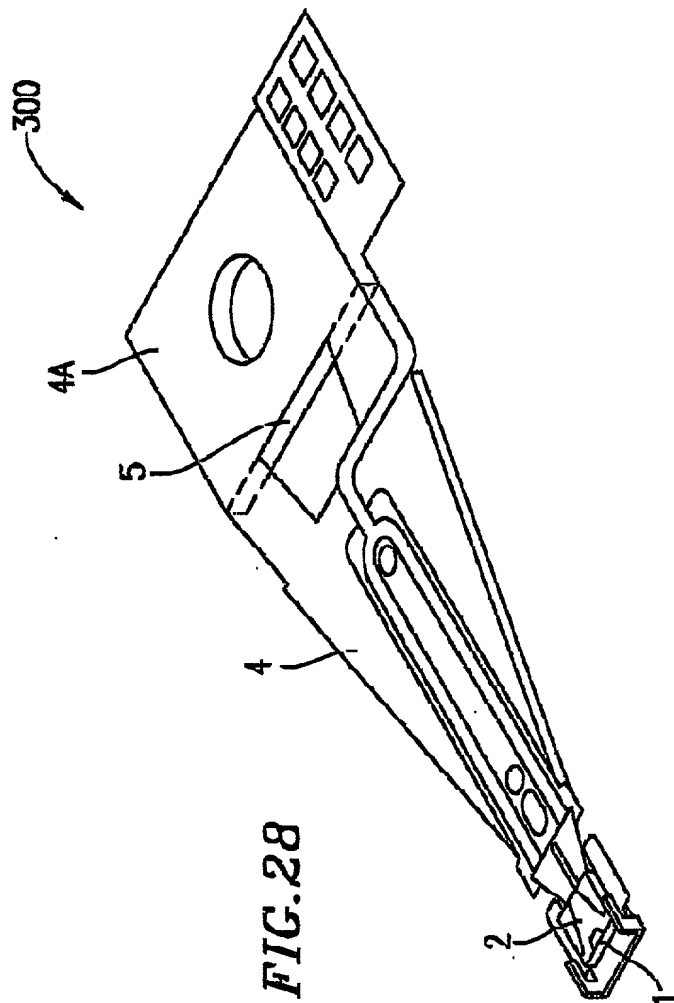


FIG. 27B

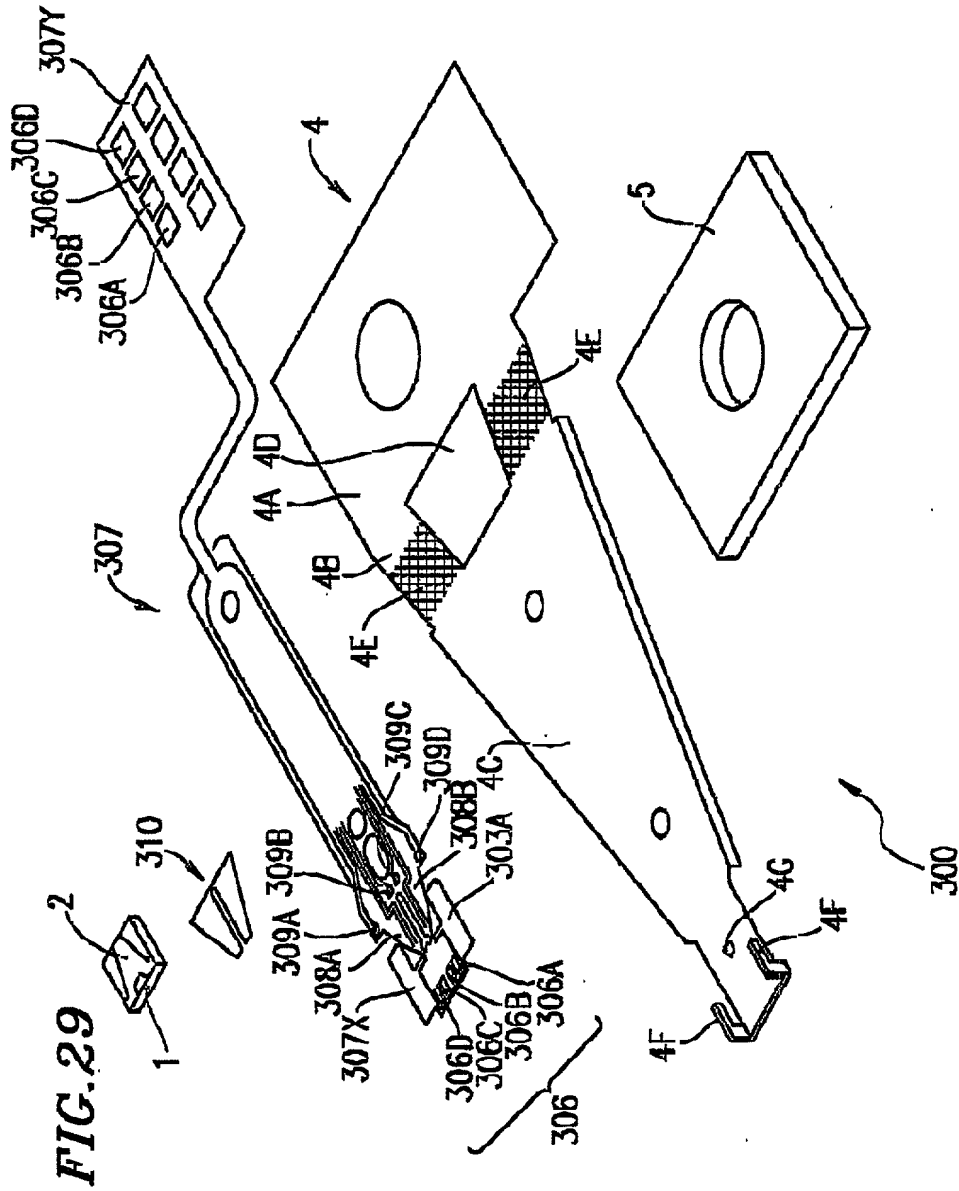


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FIG. 29



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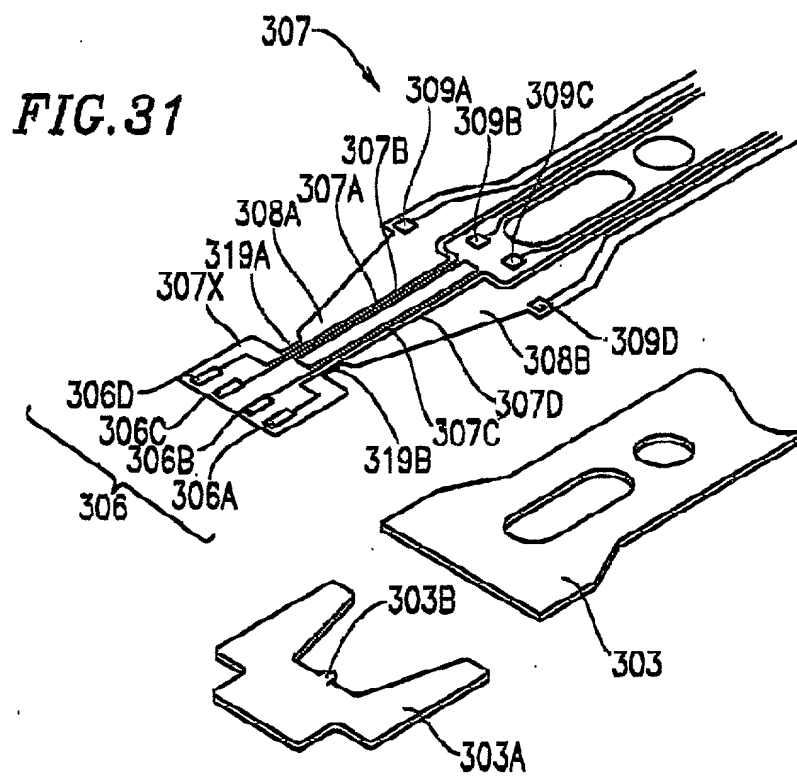
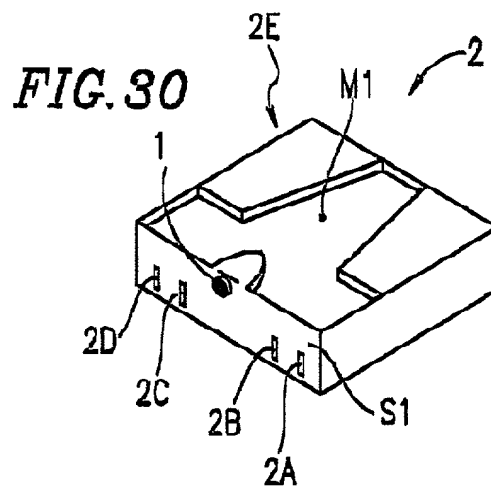
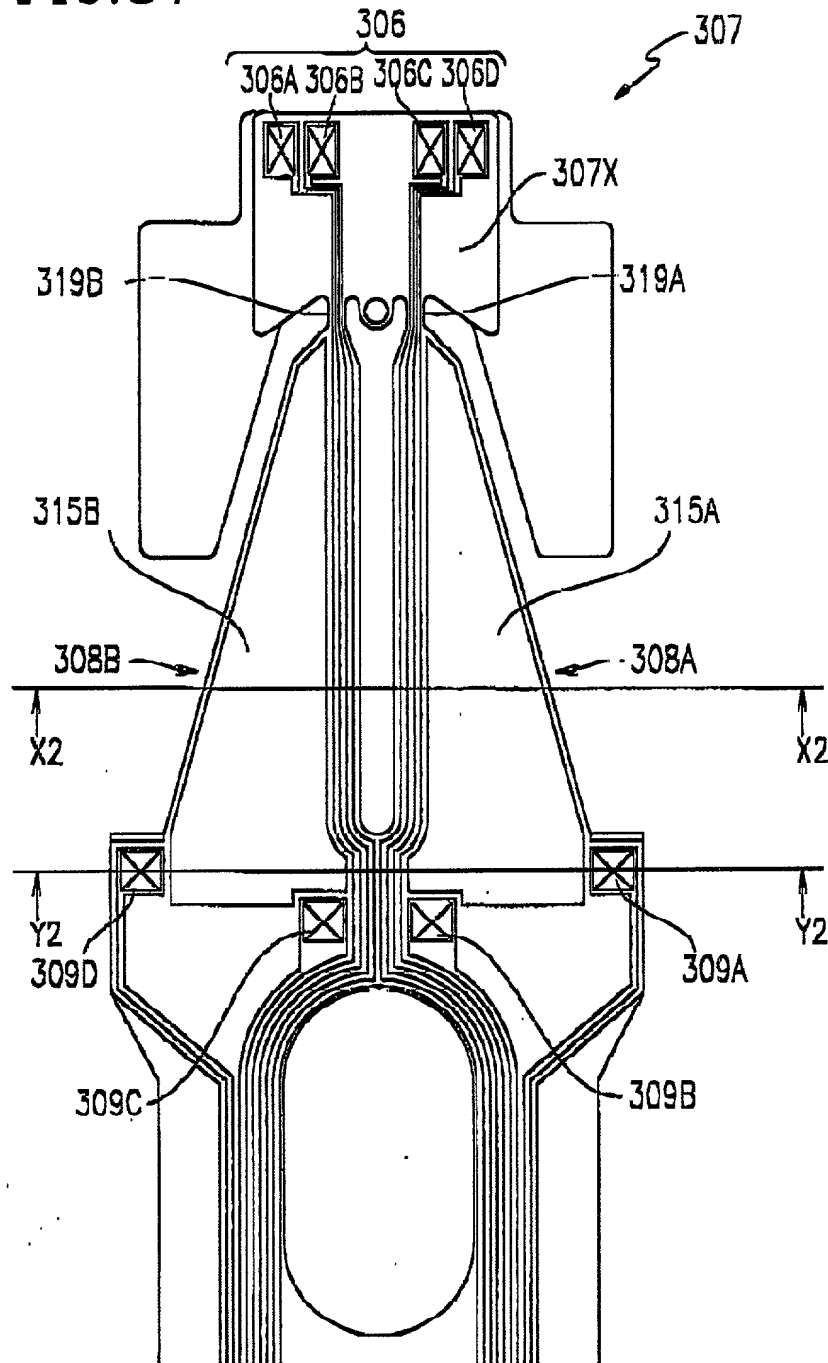


FIG. 30

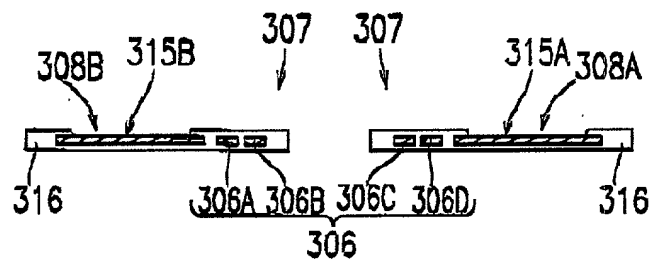
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FIG. 34



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FIG. 35



X2-X2 Cross section

FIG. 35

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FIG. 36

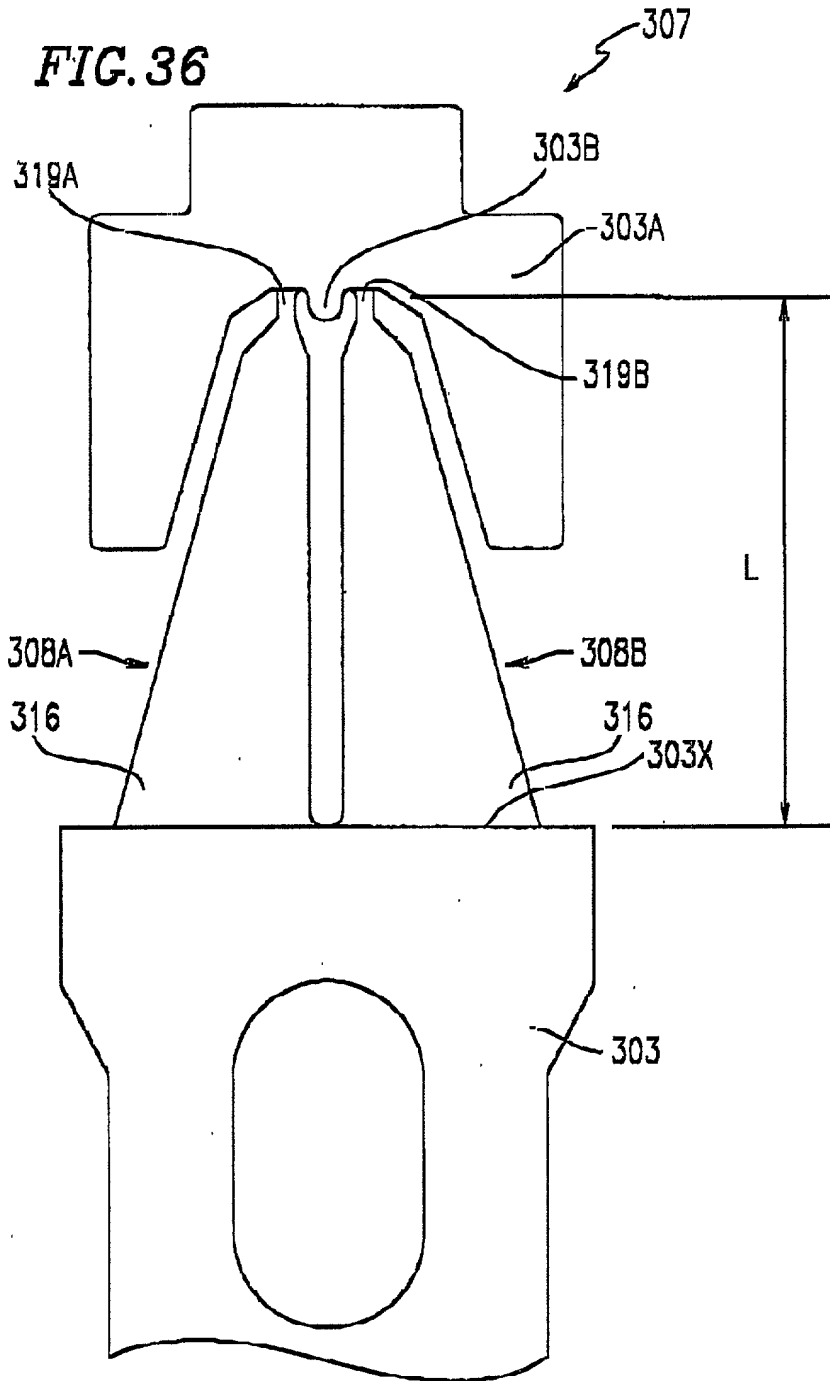
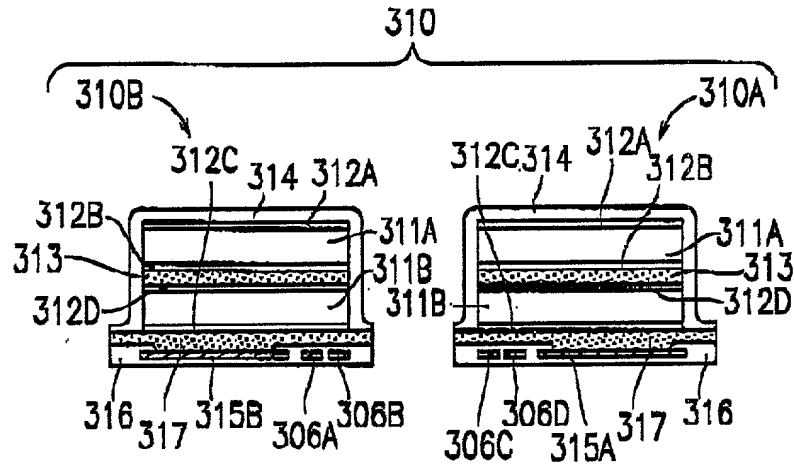


FIG. 36

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FIG. 37



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FIG. 38A

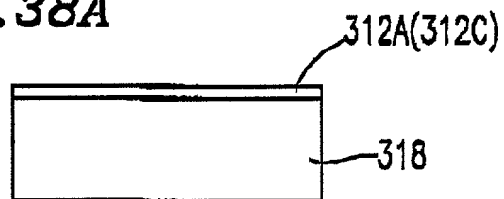


FIG. 38B

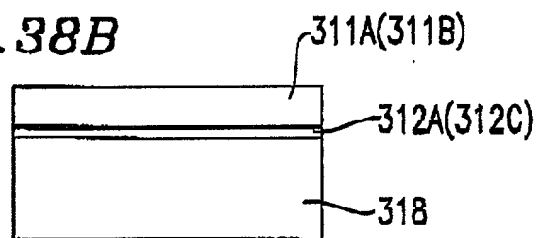


FIG. 38C

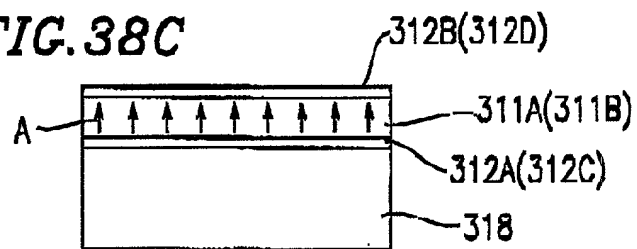


FIG. 38A

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FIG. 39A

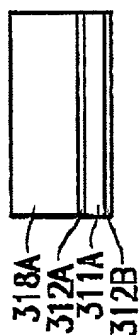


FIG. 39B

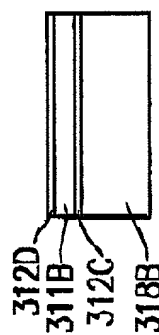


FIG. 39C

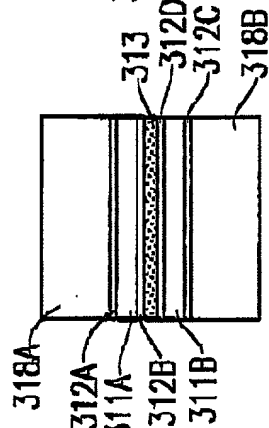


FIG. 39D

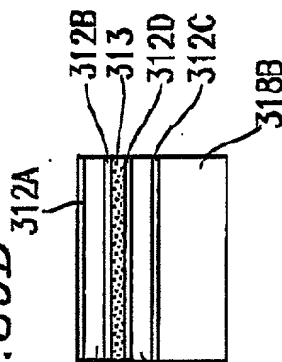


FIG. 39E

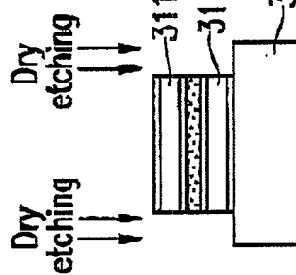


FIG. 39F

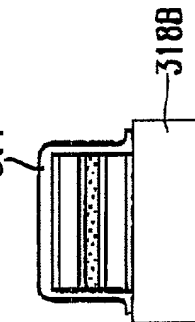


FIG. 39G



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FIG. 40

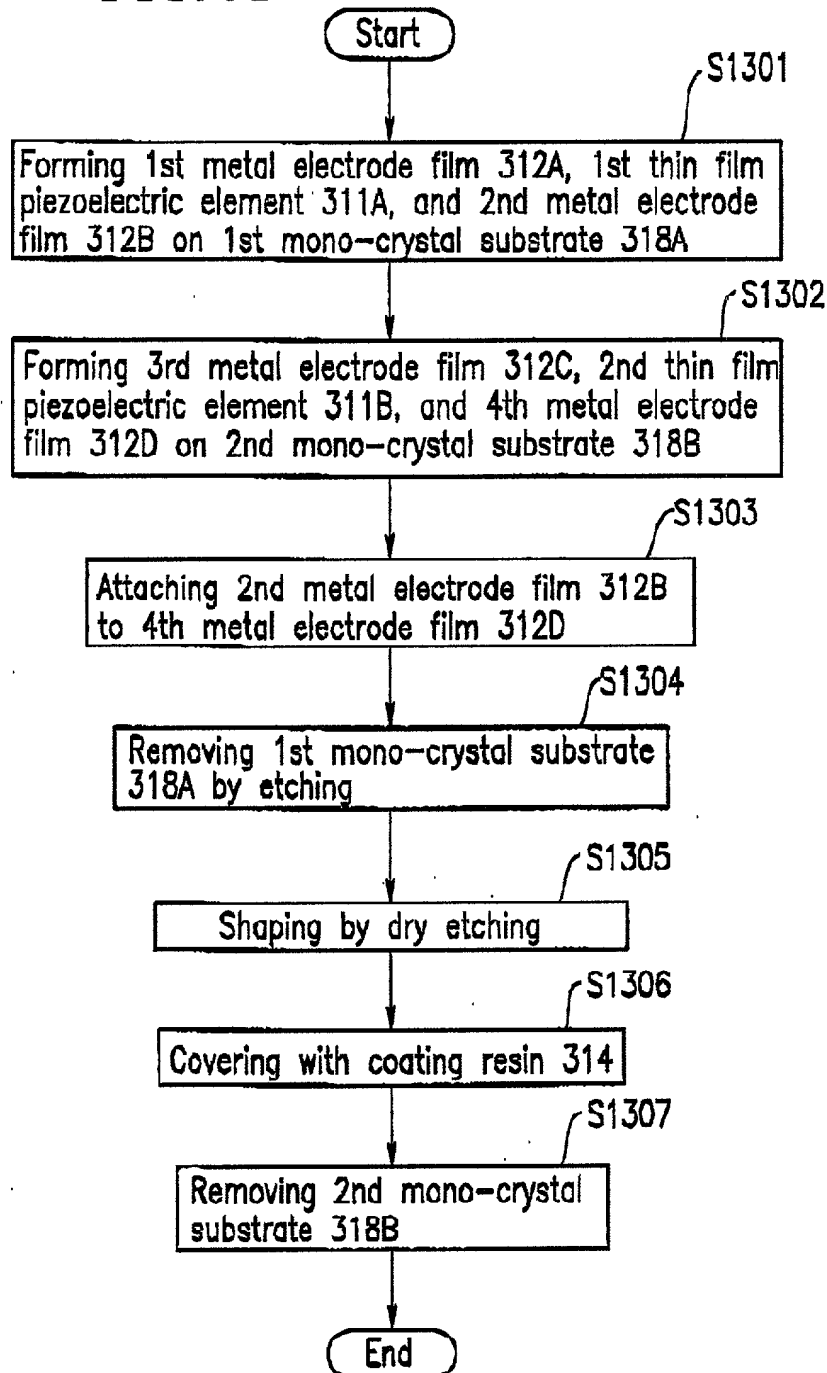


FIG. 40

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FIG. 43A

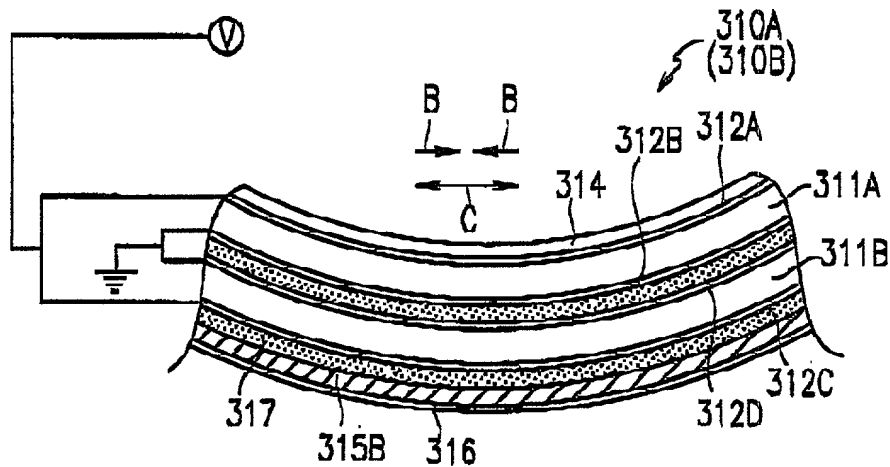


FIG. 43B

Voltage applied to
thin film piezoelectric
terminal 309A

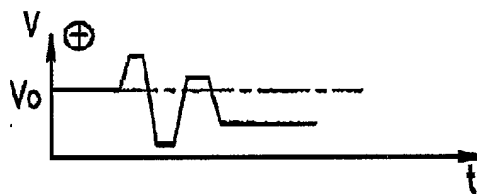
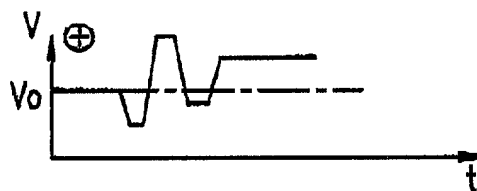


FIG. 43C

Voltage applied to
thin film piezoelectric
terminal 309D



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FIG. 44A

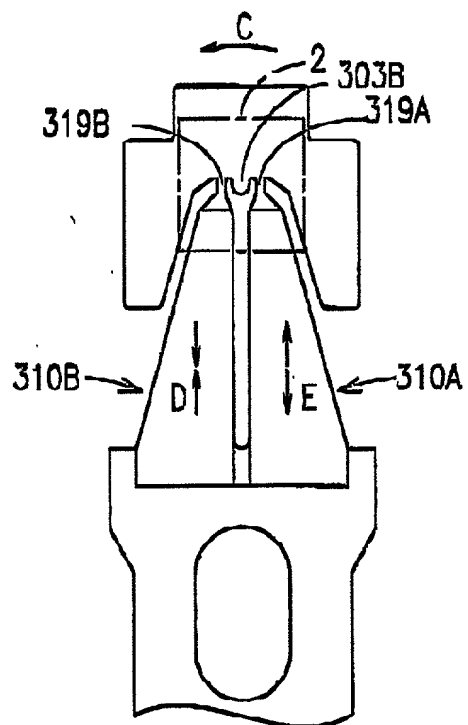
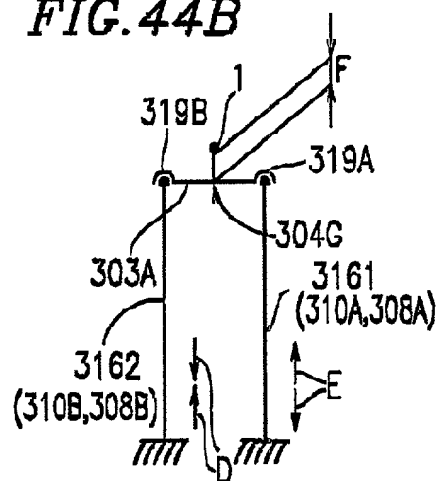


FIG. 44B



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